

**TRANSMITTAL
FORM**

(To be used for all correspondence after initial filing)

Total Number of Pages in This Submission

16 +
86 Refs.

Application Number	09/457,931
Filing Date	December 8, 1999
First Named Inventor	H. Ralph SNODGRASS
Art Unit	1632
Examiner Name	S. Chen
Attorney Docket Number	441472000100

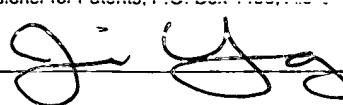
ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form (SB/17) <input checked="" type="checkbox"/> plus duplicate for fee processing (2 pages)	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement (Supplemental - 3 pages)	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
		1. Form PTO-1449 + copy (10 pages) 2. 86 References 3. Return Receipt Postcard
	<input type="checkbox"/> <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> <input type="checkbox"/> CD, Number of CD(s) <input type="checkbox"/> Landscape Table on CD
	Remarks	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	MORRISON & FOERSTER LLP (Customer No. 25226)		
Signature			
Printed name	Carol M. Gruppi		
Date	February 25, 2005	Reg. No.	37,341

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. FV336621804US, in a box addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1150, Alexandria, VA 22313-1450, on the date shown below.

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(Jim C. Yang)

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Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL

For FY 2005

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT	(\\$) 180.00	Attorney Docket No.	441472000100
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Complete if Known

Application Number	09/457,931
Filing Date	December 8, 1999
First Named Inventor	H. Ralph SNODGRASS
Examiner Name	S. Chen
Art Unit	1632

METHOD OF PAYMENT (check all that apply)

Check Credit Card Money Order None Other (please identify): _____

Deposit Account Deposit Account Number: 03-1952 Deposit Account Name: Morrison & Foerster LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee

Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 Credit any overpayments

FEE CALCULATION**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Small Entity Fee (\$)	Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)		
Utility	300	150	500	250	200	100		0.00
Design	200	100	100	50	130	65		0.00
Plant	200	100	300	150	160	80		0.00
Reissue	300	150	500	250	600	300		0.00
Provisional	200	100	0	0	0	0		0.00

2. EXCESS CLAIM FEES**Fee Description**

Each claim over 20 (including Reissues)

Each independent claim over 3 (including Reissues)

Multiple dependent claims

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims	Small Entity Fee (\$)	Fee (\$)
72	- 66 = 0	x 25.00	= 0.00	180.00	50	25
					200	100

Indep. Claims Extra Claims Fee (\$) Fee Paid (\$)

3 - 5 = 0 x 100.00 = 0.00

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
	- 100 =	/50 (round up to a whole number) x	125.00	= 0.00

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): 1806 Submission of an Information Disclosure Statement 180.00

SUBMITTED BY

Signature		Registration No. (Attorney/Agent)	37,341	Telephone	(650) 813 5711
Name (Print/Type)	Carol M. Gruppi			Date	February 25, 2005



PATENT
Docket No. 441472000100

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Dated: February 25, 2005

Signature:  (Jim C. Yang)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

H. Ralph SNODGRASS

Serial No.: 09/457,931

Filing Date: December 8, 1999

For: TOXICITY TYPING USING
EMBRYOID BODIES

Examiner: S. Chen

Group Art Unit: 1632

**SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicant submits for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents are also submitted herewith. The Examiner is requested to make these documents of record.

This Supplemental Information Disclosure Statement is submitted:

- With the application; accordingly, no fee or separate requirements are required.
- Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114. However, if applicable, a certification under 37 C.F.R. § 1.97(e)(1) has been provided.
- Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required. However, if applicable, a certification under 37 C.F.R. § 1.97(e)(1) has been provided.
- After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - A fee is required. A check in the amount of __ is enclosed.
 - A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly; no fee is believed to be due.
- After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
 - A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the amount of __ is enclosed.
 - A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal form (PTO/SB/17 is attached to this submission in duplicate.)

Applicant would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does

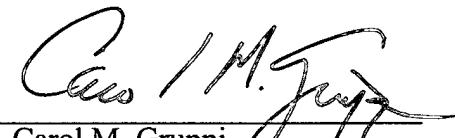
not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. §1.17(p)) is required, Applicant petitions for any required relief including extensions of time and authorizes the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing 441472000100. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: February 25, 2005

Respectfully submitted,

By:


Carol M. Gruppi
Registration No. 37,341

Morrison & Foerster LLP
755 Page Mill Road
Palo Alto, California 94304-1018
Telephone: (650) 813-5777
Facsimile: (650) 494-0792

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Docket Number 441472000100	Application Number 09/457,931
		Applicant	H. Ralph SNODGRASS
		Filing Date December 8, 1999	Group Art Unit 1632
		Mailing Date February 25, 2005	

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	02/11/1986	4,569,774	Forbus, Jr.			
	2.	11/27/1990	4,973,493	Guire			
	3.	03/26/1991	5,002,867	Macevicz			
	4.	03/30/1993	5,197,985	Caplan et al.			
	5.	04/06/1993	5,200,313	Carrico			
	6.	04/13/1993	5,202,231	Drmanac et al.			
	7.	07/12/1994	5,328,695	Lucas et al.			
	8.	01/23/1996	5,486,359	Caplan et al.			
	9.	09/24/1996	5,559,022	Naughton et al.			
	10.	07/08/1997	5,645,990	Love			
	11.	08/26/1997	5,660,986	Harris et al.			
	12.	04/07/1998	5,736,396	Bruder et al.			
	13.	06/30/1998	5,773,213	Guilans et al.			
	14.	08/04/1998	5,789,246	Reid et al.			
	15.	10/27/1998	5,827,735	Young et al.			
	16.	10/27/1998	5,827,740	Pittenger			
	17.	01/19/1999	5,861,313	Pang et al.			
	18.	02/22/2000	6,027,880	Cronin et al.			
	19.	03/07/2000	6,033,860	Lockhart et al.			
	20.	03/21/2000	6,040,138	Lockhart et al.			
	21.	05/30/2000	6,069,005	Reid et al.			
	22.	10/17/2000	6,133,436	Köster et al.			
	23.	09/09/2001	6,171,858	Hölzle et al.			
	24.	08/07/2001	6,270,961	Drmanac			
	25.	10/09/2001	6,299,858	Serbedzija et al.			
	26.	01/01/2002	6,458,589	Rambhatla et al.			

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EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Docket Number 4414720091C9	Application Number 09/457,931
		Applicant	H. Ralph SNODGRASS
		Filing Date December 8, 1999	Group Art Unit 1632
		Mailing Date February 25, 2005	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	27.	11/22/1994	JP 06-319535	Japan			Abstract
	28.	07/07/1998	JP 10-179150	Japan			Abstract
	29.	11/16/1989	WO 89/10977	WIPO			
	30.	10/04/1990	WO 90/11548	WIPO			
	31.	09/02/1993	WO 93/17126	WIPO			
	32.	06/13/1996	WO 96/17958	WIPO			
	33.	03/20/1997	WO 97/10365	WIPO			
	34.	06/26/1997	WO 97/22720	WIPO			
	35.	07/31/1997	WO 97/27317	WIPO			
	36.	08/28/1997	WO 97/31256	WIPO			
	37.	12/11/1997	WO 97/46313	WIPO			
	38.	03/26/1998	WO 98/12354	WIPO			
	39.	06/18/1998	WO 98/26098	WIPO			
	40.	01/20/2000	WO 00/03001	WIPO			

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	41.	Blouin et al. (1992). "Cytokeratin 14 Expression in Rat Liver Cells I Culture and Localization in vivo," <i>Differentiation</i> 52:45-54.
	42.	Borer, P.N. et al. (1974). "Stability of Ribonucleic Acid Double-Stranded Helices," <i>J. Mol. Biol</i> 86:843-853.
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	45.	Brill et al. (1995). "Maturation-Dependent Changes in the Regulation of Liver-Specific Gene Expression in Embryonal Versus Adult Primary Liver Cultures," <i>Differentiation</i> 59: 95-102.
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	Neonatal Rat Livers," <i>Digestive Diseases & Sciences</i> 44:364-371.
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54.	Gall et al. (1990). "Development of Intrahepatic Bile Ducts in Rat Foetal Liver Explants in vitro," <i>J. Exp. Pathol.</i> 71:41-50.
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57.	Grisham et al. (1997). "Liver Stem Cells" <i>In Stem Cells</i> Academic Press: London, pp. 233-282.
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64.	Marceau (1990). "Biology of Disease: Cell Lineages and Differentiation Programs in Epidermal, Urothelial and Hepatic Tissues and Their Neoplasms," <i>Lab. Invest.</i> 63:4-20.
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		pp.19-78.
82.		Volkmuth, W.D. and Austin, R. H. (1992). "DNA Electrophoresis in Microlithographic Arrays," <i>Nature</i> 358:600-602.
83.		Young, H. E. et al. (1988). "Initial Characterization of Small Proteoglycans Synthesized by Embryonic Chick Leg Muscle-Associated Connective Tissues," <i>Connective Tissue Research</i> 17:99-118.
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85.		Young, H. E. et al. (1992). "Isolation of Embryonic Chick Myosatellite and Pluripotent Stem Cells," <i>J. Tiss. Cult. Method</i> 14:85-92.
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